

Revitalize and Migrate Avaya/Nortel DECT systems

# NEC IP DECT wireless solutions

Today's business environment demands flexible ways of working and excellent customer services. Mobile workers are more effective and many organizations integrate wireless communications with their office communications without compromising on voice quality, availability and security. DECT technology uses a protected frequency band and is not effected by any distortion from other services, so managing IP DECT systems means less work and no stress. NEC's IP DECT wireless solution realizes all of this, and much more.

With NEC IP DECT, existing Avaya/Nortel (IP) DECT networks can be migrated to the latest standard, using the migration options offered by NEC IP DECT. This can be achieved by a step by step approach retaining the value of the existing system, only replacing what needs to be replaced and avoiding additional investments. This solution descriptions explains how this can be done and summarizes the various capabilities.

### Revitalize and migrate existing DECT wireless networks

With NEC IP DECT a complete migration package is available for Avaya/Nortel customers interested to re-vitalize their DECT system. For example, new NEC IP DECT handsets can replace old handsets and fully integrate with the existing DECT wireless network and with the CS1000 PBX system. The existing IP DECT system can also be upgraded to allow expansion with new NEC IP DECT Access Points. Finally, it may be decided to replace the CS1000 by a new IP communication server, such as Avaya Aura, IP Office or a NC system.

#### Existing TDM DECT configurations

- > The handsets which represent a large part of the total installed value can be re-used in a wireless network that is upgraded with NEC IP DECT Access Points

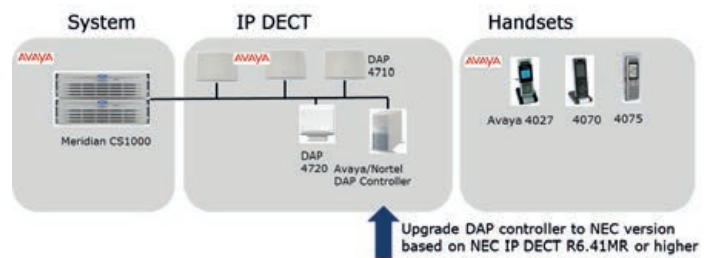
#### Existing IP DECT configurations

- > Avaya/Nortel IP DECT Access Points can be upgraded to work with new NEC AP400 Access Points
- > The upgraded system can be expanded with new AP400 Access Points as well as with new handsets

The upgraded or new IP DECT system will interwork with the existing CS1000, but will also support a later migration to Avaya Aura, IP Office or another communication server.

### Solution overview

The various scenarios are illustrated in the following overview



The typical Avaya/Nortel IP DECT customer base system includes Meridian CS1000 and Avaya/Nortel IP DECT with Nortel/Avaya model 4710 and/or 4720 IP DECT Access Points combined with handsets model 4027, 4070, 4075 or older versions. The first step is to upgrade the software by updating the DAP controller.



After the software upgrade, the upgraded IP DECT system allows the combination of Nortel/Avaya and NEC Access Points as well as handsets. Customers can simply continue working with IP DECT as they were used to, expand their system and replace defect handsets.

### With NEC IP DECT customers get so much more

NEC IP DECT offers extremely rich functionality which Avaya/Nortel customers can take advantage of.

**Extreme scalability** - NEC IP DECT offers extreme system scalability, from small to very large configurations that can include up to 2000 AP400 Access Points. This is obtained with NEC's VLS software.

**Geographic flexibility** - Various sites can be spread across locations - local, national or international - while local survivability is offered for communication and messaging services. Handsets can roam freely between sites.

**Rich Messaging and Alarming** - Existing messaging interfaces can be upgraded to the latest DMLS (DECT Messaging and Location Services) interface. DMLS supports many middleware systems such as those from NewVoice. The NEC handsets support various alarming and messaging options such as with the alarm button, man-down, text messaging with various priority and confirmation options such as with automated call-setup, broadcast messaging, PTT (Push-to-talk) and Lone worker scenarios.

**Location services** - The NEC IP DECT solution supports various ways to locate users, either by means of last Access Point connection, Received Signal Strength Information (RSSI) or by means of LF-beacons. As such in case of duress or other emergency situations, staff can be directed to the right spot immediately.

**Corporate Directory and Presence** - NEC IP DECT provides users access to the corporate directory. At all times the telephone numbers and names of the entire organization are at hand. When combined with an NEC communication server and Business Connect software, users even have the presence information available of the person they need to contact.

### Security, integrity and availability

**Security** - IP DECT telephony ensures data security over the IP network; DECT 'over-the-air' transmission ensures information security over the radio channel, while all information exchange (messages and voice communications) is encrypted - DECT encryption, SRTP and TLS for signaling/media and HTTPS for provisioning.

**System integrity is ensured** - Secure device administration over IP ensures that only authorized users can administrate the system.

**System availability is ensured** - All system components support 'fail-over'; backup devices can be configured to takeover if the primary one fails. The system's centralized management has high-availability options, while the software supports the use of virtualization. This is well-integrated with the Avaya system as well and ensured by DevConnect certification.

### Handsets

An upgraded IP DECT system can be expanded with all models NEC DECT handsets.



The portfolio includes handsets across a wide price range, from basic (G266) or sophisticated (G566) with messaging, to one specifically designed for most demanding industry environments (I766), a multi-functional SmartDECT G966 android handset and a M166 pendant for voice/alarm enabled personal security.

### DevConnect

NEC works closely together with Avaya's DevConnect Solution & Interoperability Test Lab. This has resulted in full interoperability with Avaya Aura and planned (May 2017) certification for IP Office. Dedicated Application Notes describe the configuration process to provide interoperability between NEC IP DECT and Avaya system.